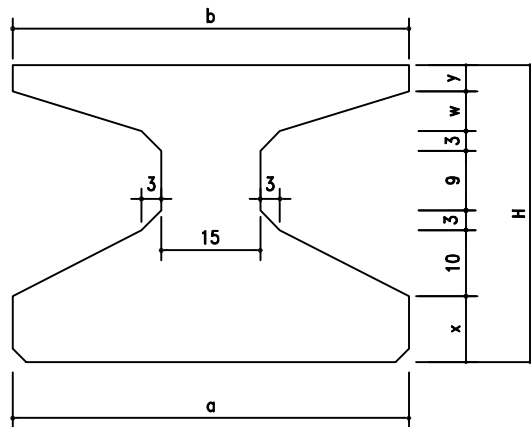
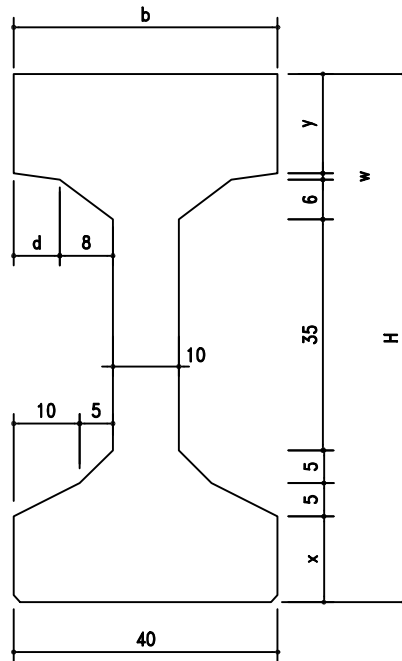


PRODUCTO	VIGAS VP	REV. Jul 07	ESC. S/E	Nº FICHA 5.01
		DEL.	UDS. varios	
DENOMINACIÓN	VIGA VP 45 / 65			REF. VP



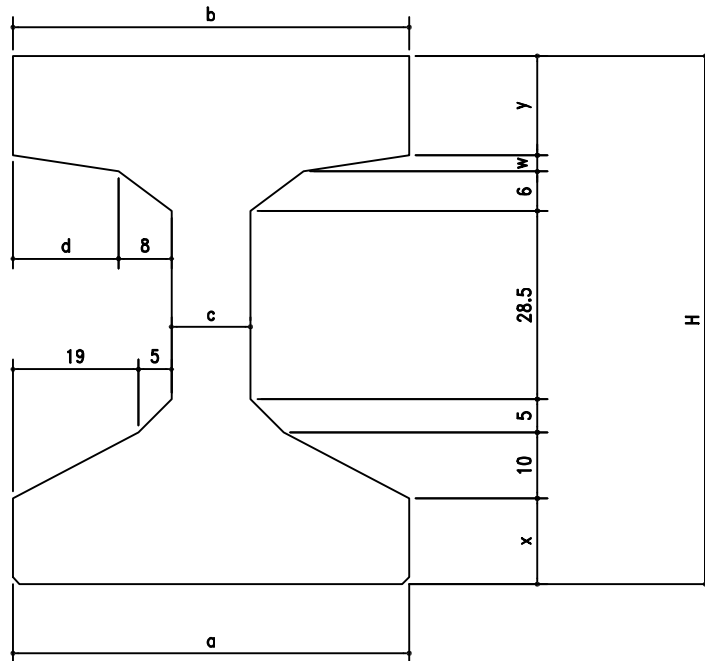
Modelo	CARAC. GEOMÉTRICAS					CARACTERÍSTICAS MECÁNICAS				
	H	x	y	w	b	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
									inf.	sup.
VP 40.40	40	10	4	1	27.5	344,55	1.378	17.9	14.9	25.1
VP 45.40	45	10	7	3	40	404,05	1.616	32.8	18.8	26.2
VP 45.60	45	10	4	6	60	431,75	1.727	38.5	20.3	24.7
VP 50.60	50	15	4	6	60	506,75	2.027	51.8	22	28
VP 50S.40	50	10	12	3	40	454,05	1.816	47.5	22	28
VP 50S.60	50	10	9	6	60	506,75	2.027	57.4	24.3	25.7
VP 55.60	55	15	9	6	60	581,75	2.327	76.2	25.9	29.1
VP 55S.40	55	10	17	3	40	504,05	2.016	64.3	25	30
VP 55S.60	55	10	14	6	60	581,75	2.327	78.2	28	27
VP 60.60	60	20	9	6	60	656,75	2.627	97.6	27.7	32.3
VP 60.120	60	20	5	10	120	787,25	3.149	131.2	32.2	27.8
VP 60S.40	60	15	17	3	40	579,05	2.316	84	26.5	33.5
VP 60S.60	60	15	14	6	60	656,75	2.627	102.8	29.5	30.5
VP 65S.40	65	20	17	3	40	654,05	2.616	106.3	28.1	36.9
VP 65S.60	65	20	14	6	60	731,75	2.927	130.3	31.2	33.8



Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VPI 75.40	75	13	10	1	40	7	408,0	1.632	114.4	35.6	39.4
VPI 75.60	75	13	9	2	60	17	454,43	1.817	134.7	39.2	35.8
VPI 75.80	75	13	7	4	80	27	493,71	1.974	149.5	41.7	33.3
VPI 75.100	75	13	6	5	100	37	525,86	2.103	160.4	43.5	31.5
VPI 75.120	75	13	4	7	120	47	550,86	2.203	168.5	44.9	30.1
VPI 80S.40	80	13	15	1	40	7	458,0	1.832	145.7	40.2	39.8
VPI 80S.60	80	13	14	2	60	17	529,43	2.117	172.6	44.6	35.4
VPI 80S.80	80	13	12	4	80	27	593,71	2.374	192.2	47.7	32.3
VPI 80S.100	80	13	11	5	100	37	650,86	2.603	207.1	50.1	29.9
VPI 80S.120	80	13	9	7	120	47	700,86	2.803	218.8	51.8	28.2
VPI 80.40	80	18	10	1	40	7	458,0	1.832	140.2	36.5	43.5
VPI 80.60	80	18	9	2	60	17	504,43	2.017	165.8	40.0	40.0
VPI 80.80	80	18	7	4	80	27	543,71	2.174	184.8	42.6	37.4
VPI 80.100	80	18	6	5	100	37	575,86	2.303	199.0	44.5	35.5
VPI 80.120	80	18	4	7	120	47	600,86	2.403	209.4	45.9	34.1
VPI 85S.40	85	18	15	1	40	7	508	2.032	178.5	41.0	44.0
VPI 85S.60	85	18	14	2	60	17	579,43	2.317	213.0	45.5	39.5
VPI 85S.80	85	18	12	4	80	27	643,71	2.574	238.6	48.8	36.2
VPI 85S.100	85	18	11	5	100	37	700,86	2.803	258.3	51.3	33.7
VPI 85S.120	85	18	9	7	120	47	750,86	3.003	273.8	53.2	31.8

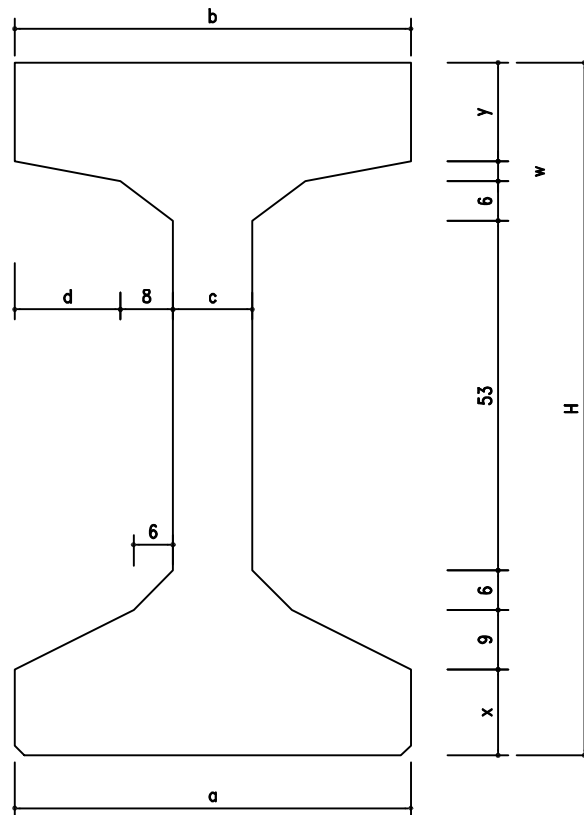
(*) Características mecánicas de la sección en doble T, sin macizados.

PRODUCTO	VIGAS VP	REV. Jul 07	ESC. S/E	Nº FICHA 5.03
		DEL.	UDS. varios	
DENOMINACIÓN	VIGA VPS 75 / 85			REF. VPS



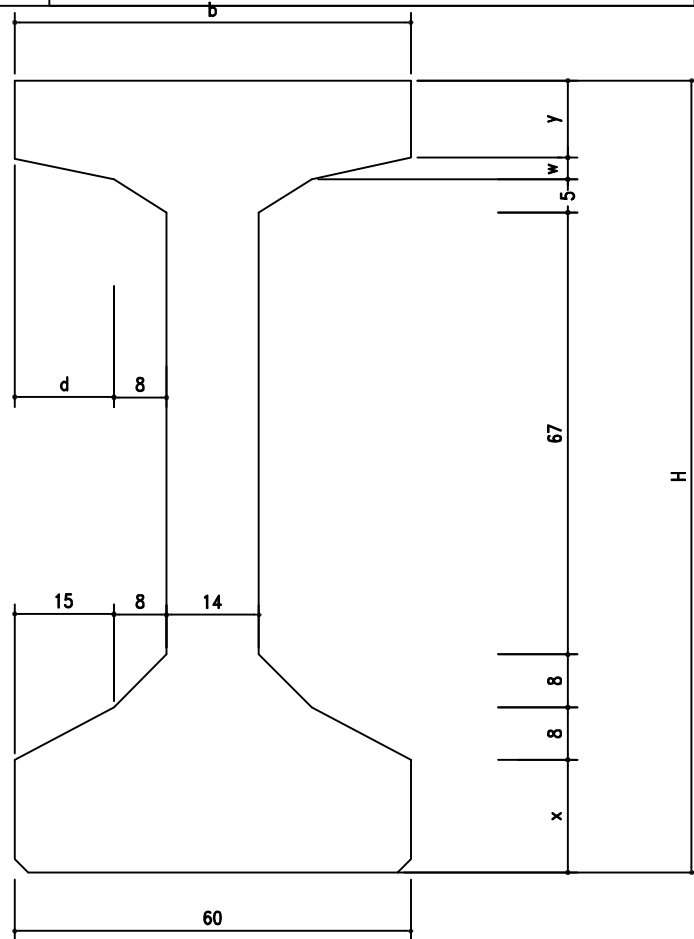
Modelo	CARAC. GEOMÉTRICAS								CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	a	b	c	d	Peso(kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
												inf.	sup.
VPS 75.40	75	13	11.5	1	60	40	12	6	561	2.244	145.4	31.6	43.4
VPS 75.60	75	13	10	2.5	60	60	12	16	616.8	2.467	174.6	35	40
VPS 75.80	75	13	8.5	4	60	80	12	26	665.1	2.660	196.8	37.6	37.4
VPS 75.100	75	13	7	5.5	60	100	12	36	696.2	2.785	211.7	39.2	35.8
VPS 75.120	75	13	5	7.5	60	120	12	46	727.8	2.911	224.6	40.6	34.4
VPS 80S.40	80	13	16.5	1	60	40	12	6	612.8	2.451	184.6	35.4	44.6
VPS 80S.60	80	13	15	2.5	60	60	12	16	686.5	2.746	223.5	39.7	40.3
VPS 80S.80	80	13	13.5	4	60	80	12	26	769.4	3.077	253	42.9	37.1
VPS 80S.100	80	13	12	5.5	60	100	12	36	837.8	3.351	276.2	45.4	34.6
VPS 80S.120	80	13	10	7.5	60	120	12	46	898	3.592	294.8	47.3	32.7
VPS 80.40	80	18	11.5	1	60	40	12	6	636	2.544	176.2	32.6	47.4
VPS 80.60	80	18	10	2.5	60	60	12	16	691.8	2.767	212.2	36	44
VPS 80.80	80	18	8.5	4	60	80	12	26	740	2.960	240.1	38.5	41.5
VPS 80.100	80	18	7	5.5	60	100	12	36	771	3.084	262.2	40.5	39.5
VPS 80.120	80	18	5	7.5	60	120	12	46	816.3	3.265	279	42	38
VPS 85S.40	85	18	16.5	1	60	40	12	6	686	2.744	222.4	36.2	48.8
VPS 85S.45	85	18	16	1.5	60	45	12	8.5	703	2.812	-----	-----	-----
VPS 85S.60	85	18	15	2.5	60	60	12	16	766.8	3.067	270.9	40.5	44.5
VPS 85S.80	85	18	13.5	4	60	80	12	26	840.1	3.360	310.5	43.8	41.2
VPS 85S.100	85	18	12	5.5	60	100	12	36	907.3	3.629	338.2	46.3	38.7
VPS 85S.120	85	18	10	7.5	60	120	12	46	966.3	3.865	362.2	48.3	36.7
VPS 85S.123	85	18	10	7.5	63	123	15	46	1.015	4.060	375.5	48	37

(*) Características mecánicas de la sección en doble T, sin macizados.



Modelo	CARAC. GEOMÉTRICAS								CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	a	b	c	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
												inf.	sup.
VP 100.40	100	13	12	1	60	40	12	6	632.7	2.531	309.7	42.2	57.8
VP 100.60	100	13	10	3	60	60	12	16	686.9	2.748	364.7	46.4	53.6
VP 100.80	100	13	8	5	60	80	12	26	731.4	2.926	405.2	49.4	50.6
VP 100.100	100	13	6	7	60	100	12	36	766.1	3.064	434.7	51.5	48.5
VP 100.120	100	13	4	9	60	120	12	46	791.0	3.164	455.1	52.9	47.1
VP 105S.40	105	13	17	1	60	40	12	6	682.7	2.731	377.1	46.6	58.4
VP 105S.60	105	13	15	3	60	60	12	16	761.9	3.048	450.0	51.9	53.1
VP 105S.80	105	13	13	5	60	80	12	26	831.4	3.326	504.6	55.7	49.3
VP 105S.100	105	13	11	7	60	100	12	36	891.1	3.564	546.6	58.6	46.4
VP 105S.120	105	13	9	9	60	120	12	46	941.0	3.764	579.1	60.8	44.2
VP 105.40	105	18	12	1	60	40	12	6	707.7	2.831	363.3	42.5	62.5
VP 105.60	105	18	10	3	60	60	12	16	761.9	3.048	429.1	46.6	58.4
VP 105.80	105	18	8	5	60	80	12	26	806.4	3.226	478.2	49.5	55.5
VP 105.100	105	18	6	7	60	100	12	36	841.1	3.364	514.2	51.7	53.3
VP 105.120	105	18	4	9	60	120	12	46	871.0	3.483	539.2	53.1	51.9
VP 105.125	105	18	4	9	65	125	17	46	1.002,0	4.008	-----	-----	-----
VP 110S.40	110	18	17	1	60	40	12	6	757.7	3.031	442.3	46.8	63.2
VP 110S.60	110	18	15	3	60	60	12	16	836.9	3.348	530.6	52.0	58.0
VP 110S.80	110	18	13	5	60	80	12	26	906.4	3.626	597.8	55.9	54.1
VP 110S.100	110	18	11	7	60	100	12	36	966.1	3.864	649.9	58.9	51.1
VP 110S.120	110	18	9	9	60	120	12	46	1.016.0	4.064	690.4	61.2	48.8

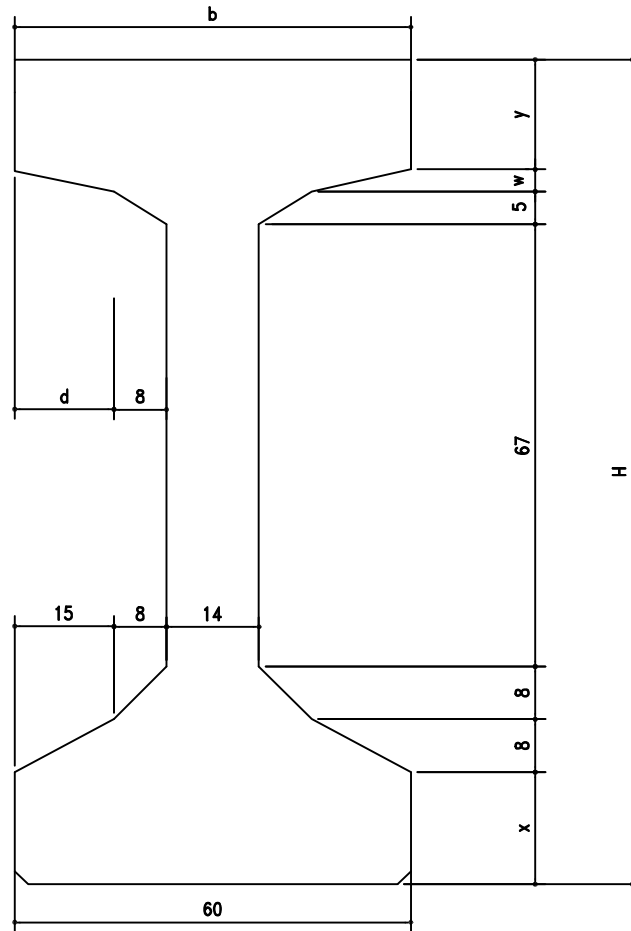
(*) Características mecánicas de la sección en doble T, sin macizados.



Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VP 120.40	120	17	14	1	40	5	798,61	3.194	541.8	50.6	69.4
VP 120.60	120	17	12	3	60	15	862,5	3.450	636	55.3	64.7
VP 120.80	120	17	9.5	5.5	80	25	915,28	3.661	706.4	58.7	61.3
VP 120.100	120	17	7	8	100	35	956,94	3.827	758.5	61.2	58.8
VP 120.120	120	17	5	10	120	45	987,5	3.950	795.3	62.9	57.1
VP 125.40	125	22	14	1	40	5	873,61	3.494	619	51.1	73.9
VP 125.60	125	22	12	3	60	15	937,5	3.750	728	55.7	69.3
VP 125.80	125	22	9.5	5.5	80	25	990,28	3.961	810.1	59.1	65.9
VP 125.100	125	22	7	8	100	35	1.031,94	4.127	871.2	61.6	63.4
VP 125.120	125	22	5	10	120	45	1.062,5	4.250	914.4	63.3	61.7
VP 130.40	130	27	14	1	40	5	948,61	3.794	698.1	51.8	78.2
VP 130.60	130	27	12	3	60	15	1.012,5	4.050	821.8	56.4	73.6
VP 130.80	130	27	9.5	5.5	80	25	1.065,28	4.261	915.7	59.7	70.3
VP 130.100	130	27	7	8	100	35	1.106,94	4.427	985.8	62.2	67.8
VP 130.120	130	27	5	10	120	45	1.137,5	4.550	1035.6	64.0	66.0

(*) Características mecánicas de la sección en doble T, sin macizados.

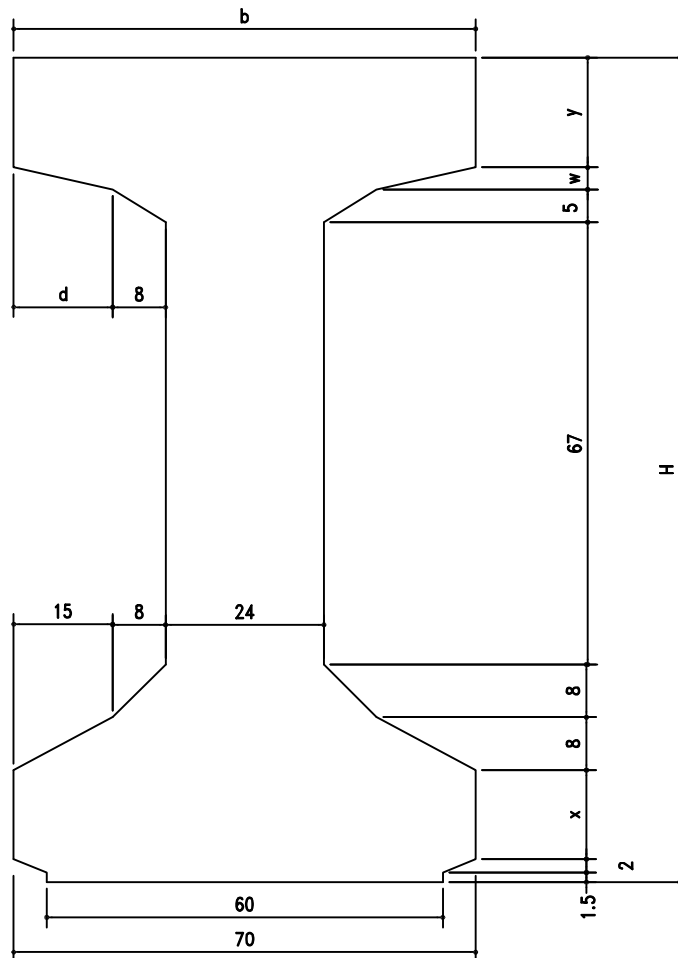
PRODUCTO	VIGAS VP	REV. Ago 07	ESC. S/E	Nº FICHA 5.07
		DEL.	UDS. varios	
DENOMINACIÓN	VP 125S/135S (base 60, alma 14)			REF. VP



Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VP 125S.40	125	17	19	1	40	5	848.6	3.394.4	639.0	54.9	70.1
VP 125S.60	125	17	17	3	60	15	937.5	3.750.0	760.7	60.7	64.3
VP 125S.80	125	17	14.5	5.5	80	25	1.015.3	4.061	853.2	65.0	60.0
VP 125S.100	125	17	12	8	100	35	1.081.9	4.328	924.8	68.3	54.7
VP 125S.120	125	17	10	10	120	45	1.137.5	4.550	980.3	70.8	54.2
VP 130S.40	130	22	19	1	40	5	923.6	3.694	729.6	55.2	74.8
VP 130S.60	130	22	17	3	60	15	1.012.5	4.050	871.4	61.0	69.0
VP 130S.80	130	22	14.5	5.5	80	25	1.090.3	4.361	980.3	65.4	64.6
VP 130S.100	130	22	12	8	100	35	1.156.9	4.628	1065.2	68.7	61.3
VP 130S.120	130	22	10	10	120	45	1.212.5	4.850	1131.3	71.2	58.8
VP 135S.40	135	27	19	1	40	5	998.6	3.994	821.8	55.9	79.1
VP 135S.60	135	27	17	3	60	15	1.087.5	4.350	983.8	61.6	73.4
VP 135S.80	135	27	14.5	5.5	80	25	1.165.3	4.661	1109.4	66.0	69.0
VP 135S.100	135	27	12	8	100	35	1.231.9	4.928	1207.8	69.4	65.6
VP 135S.120	135	27	10	10	120	45	1.287.5	5.150	1284.7	72.0	63.0

(*) Características mecánicas de la sección en doble T, sin macizados.

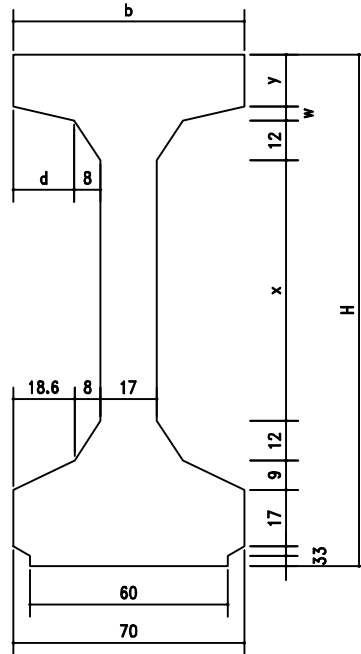
PRODUCTO	VIGAS VP	REV. Jul 08	ESC. S/E	Nº FICHA 5.08
		DEL.	UDS. varios	
DENOMINACIÓN	VPR 125S/135S (base 70, alma 14)			REF. VPR



Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VPR 125S.50	125	13.5	19	1	50	5	1.155.9	4.623.4	800.7	57.2	67.8
VPR 125S.70	125	13.5	17	3	70	15	1.244.8	4.979	916.3	61.4	63.6
VPR 125S.90	125	13.5	14.5	5.5	90	25	1.322.5	5.290.1	1.008.2	64.7	60.3
VPR 125S.110	125	13.5	12	8	110	35	1.389.2	5.556.8	1.081.8	67.2	57.8
VPR 125S.130	125	13.5	10	10	130	45	1.444.8	5.779	1.140.2	69.2	55.8
VPR 130S.50	130	18.5	19	1	50	5	1.243.4	4.973.4	915.2	58	72
VPR 130S.70	130	18.5	17	3	70	15	1.332.3	5.329	1.048.3	62.2	67.8
VPR 130S.90	130	18.5	14.5	5.5	90	25	1.410	5.640.1	1.154.8	65.5	64.5
VPR 130S.110	130	18.5	12	8	110	35	1.476.7	5.906.8	1.240.3	68.1	61.9
VPR 130S.130	130	18.5	10	10	130	45	1.532.3	6.129	1.308.4	70.2	59.8
VPR 135S.50	135	23.5	19	1	50	5	1.330.9	5.323.4	1.033.5	59	76
VPR 135S.70	135	23.5	17	3	70	15	1.419.8	5.679	1.184.4	63.2	71.8
VPR 135S.90	135	23.5	14.5	5.5	90	25	1.497.5	5.990.1	1.305.7	66.6	68.4
VPR 135S.110	135	23.5	12	8	110	35	1.564.2	6.256.8	1.403.5	69.2	65.8
VPR 135S.130	135	23.5	10	10	130	45	1.619.8	6.479	1.481.6	71.3	63.7

(*) Características mecánicas de la sección en doble T, sin macizados.

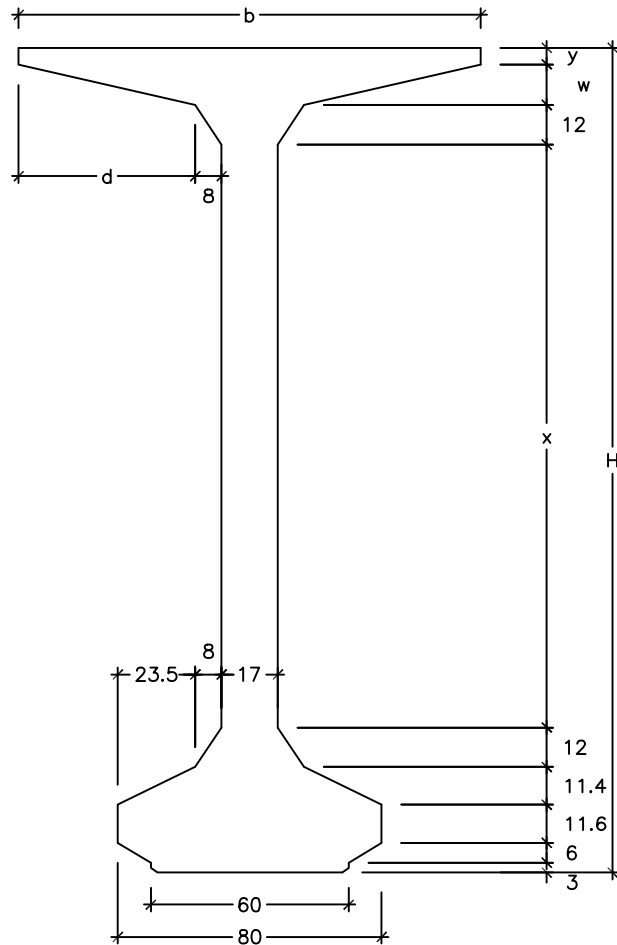
PRODUCTO	VIGAS VP	REV. May 12	ESC. S/E	Nº FICHA 5.09
		DEL.	UDS. varios	
DENOMINACIÓN	VIGA VP 150 / 225			REF. VP



Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS (*)				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VP 150.70	150	79	10.7	4.3	70	18.5	1.235,18	4.940.7	1372	67.2	82.8
VP 150.80	150	79	9.6	5.4	80	23.5	1.260,6	5.042.4	1432.6	68.8	81.2
VP 150.120	150	79	5	10	120	43.5	1.333,6	5.334.4	1598.4	73	77
VP 155.70	155	79	15.7	4.3	70	18.5	1.322,68	5.290.7	1610.2	72.8	82.2
VP 155.80	155	79	14.5	5.5	80	23.5	1.360,75	5.443,0	1692	74,4	80,8
VP 165.70	165	94	10.7	4.3	70	18.5	1.298,93	5.195.7	1756.8	74	91
VP 165.80	165	94	9.6	5.4	80	23.5	1.324,35	5.297.4	1830.6	75.6	89.4
VP 165.120	165	94	5	10	120	43.5	1.397,35	5.589.4	2033.5	80.1	84.9
VP 170.70	170	94	15.7	4.3	70	18.5	1.386,43	5.545.7	2043.7	79.9	90.1
VP 185.70	185	114	10.7	4.3	70	18.5	1.383,93	5.535.7	2360.1	83.1	101.9
VP 185.80	185	114	9.6	5.4	80	23.5	1.409,35	5.637.4	2453.8	84.9	100.1
VP 185.120	185	114	5	10	120	43.5	1.482,35	5.929.4	2711.8	89.6	95.4
VP 190.70	190	114	15.7	4.3	70	18.5	1.471,43	5.885.7	2719	89.3	100.7
VP 200.70	200	129	10.7	4.3	70	18.5	1.447,68	5.790.7	2884.5	90	110
VP 200.80	200	129	9.6	5.4	80	23.5	1.473,1	5.892.4	2994.5	91.8	108.2
VP 200.120	200	129	5	10	120	43.5	1.546,1	6.184.4	3297.8	96.8	103.2
VP 205.70	205	129	15.7	4.3	70	18.5	1.535,18	6.140.7	3302	96.4	108.6
VP 220.70	220	149	10.7	4.3	70	18.5	1.532,68	6.130.7	3684.8	99.3	120.7
VP 220.80	220	149	9.6	5.4	80	23.5	1.558,1	6.232.4	3818.6	101.2	118.8
VP 220.120	220	149	5	10	120	43.5	1.631,1	6.524.4	203.3	106.4	113.6
VP 225.70	225	149	15.7	4.3	70	18.5	1.620,18	6.480.7	4187.3	106.4	118.6

(*) Características mecánicas de la sección en doble T, sin macizados.

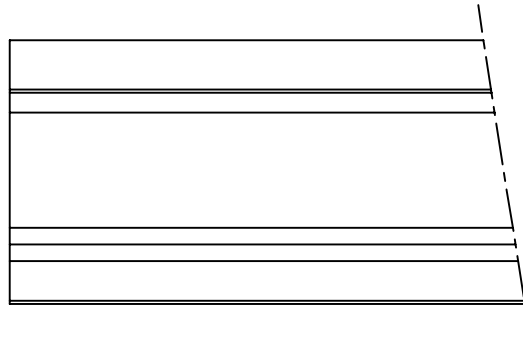
PRODUCTO	VIGAS VP	REV. Ago 08	ESC. S/E	Nº FICHA 5.10
		DEL.	UDS. varios	
DENOMINACIÓN	VIGA VP 152/250.140			REF. VP



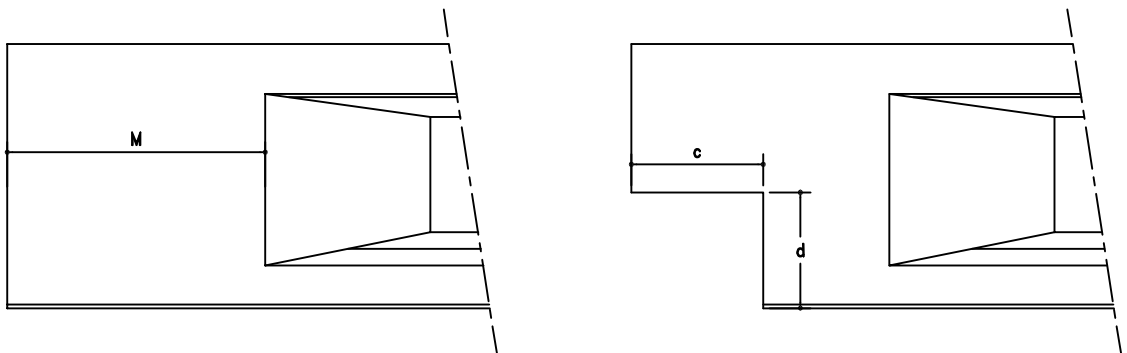
Modelo	CARAC. GEOMÉTRICAS						CARACTERÍSTICAS MECÁNICAS				
	H	x	y	w	b	d	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
										inf.	sup.
VP 152.140	152	79	5	12.3	140	53.5	1.467.7	5.870.9	1868.2	76.7	75.3
VP 167.140	167	94	5	12.3	140	53.5	1.513.5	6.125.9	2364.6	84.0	83.0
VP 180.140	180	107	5	12.3	140	53.5	1.586.7	6.346.9	3061.0	90.3	89.7
VP 187.140	187	114	5	12.3	140	53.5	1.616.5	6.465.9	3134.0	93.7	93.3
VP 202.140	202	129	5	12.3	140	53.5	1.680.2	6.720.9	3795.6	101.1	100.9
VP 222.140	222	149	5	12.3	140	53.5	1.765.2	7.060.9	4795.6	110.8	111.2
VP 250.140	250	177	5	12.3	140	53.5	1.884,1	7.536,2	6433,6	124,6	125,4

PRODUCTO	VIGAS VP	REV. Nov 07	ESC. S/E	Nº FICHA 5.11
		DEL.	UDS. varios	
DENOMINACIÓN	VIGAS - APOYO / MACIZADO			REF. VP

APOYO SIN MACIZADO

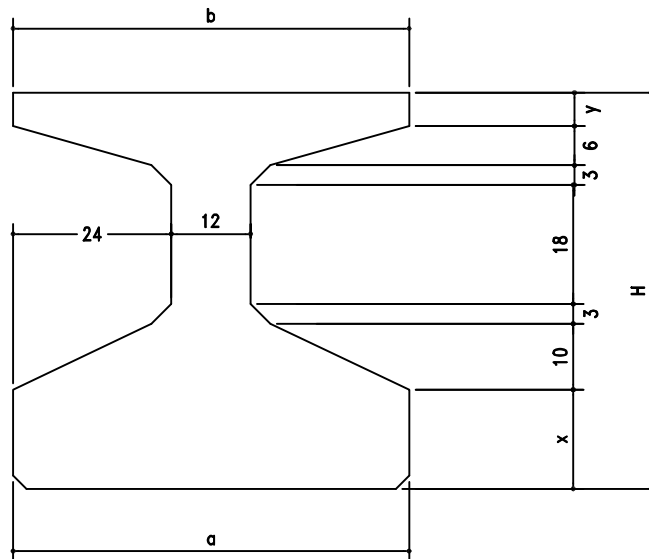


APOYO CON MACIZADO



Modelo	M	c	d
VP 45/65	-	No existe macizado	
VPI 75/85	Variable (Max. 1.25)	Variable en función del diseño.	
VPS 75/85	Variable (Max. 1.50)	Variable en función del diseño.	
VP 100/110	Variable (Max. 1.25)	Variable en función del diseño.	
VP 120/130	Variable (Max. 1.25)	Variable en función del diseño.	
VPR 120/130	Variable (Max. 1.25)	Variable en función del diseño.	
VP 125S/135S	Variable (Max. 1.25)	Variable en función del diseño.	
VPR 125S/135S	Variable (Max. 1.25)	Variable en función del diseño.	
VP 155/225	Variable (Max. 1.75)	Variable en función del diseño.	
VP 250.140	-	No existe macizado	

PRODUCTO	VIGAS VP	REV. Feb 10	ESC. S/E	Nº FICHA 5.12
		DEL.	UDS. varios	
DENOMINACIÓN	VIGA VPR60/65			REF. VP



Modelo	CARAC. GEOMÉTRICAS					CARACTERÍSTICAS MECÁNICAS				
	H	x	y	a	b	Peso (kg/m)	Área (cm ²)	Inercia (dm ⁴)	c.d.g (cm)	
									inf.	sup.
VPR60.60	60	15	5	60	60	532,07	2128	86,20	25,87	34,13
VPR65.60	65	20	5	60	60	606,5	2426	108,21	27,45	37,54